

## PATENT ABSTRACTS OF JAPAN

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### (54) **PRODUCTION OF WATER-ABSORPTIVE RESIN**

(57)Abstract:

**PURPOSE:** To obtain inexpensively, easily and at a high conversion the title resin excellent in safety and water absorption characteristics, by polymerizing an aqueous solution containing a dissolved water-absorptive resin forming monomer in an organic solvent in the presence of both a water-soluble and oil-soluble polymerization initiators.

**CONSTITUTION:** An aqueous solution (concentration  $\geq 30\%$ ) of 100pts.wt. water- absorptive resin forming monomer (A) comprising a vinyl monomer having a carboxyl group of a carboxylate group [e.g., (meth)acrylic acid (methyl ester)] and, optionally, 1W50wt% other copolymerizable monomers is polymerized by reversed phase suspension polymerization or reversed phase emulsion polymerization at 50°C or higher for 30minW6hr in 0.5W5pts.wt., per pt.wt. of component A, organic solvent (B) selected from among aliphatic, alicyclic and aromatic hydrocarbons (e.g., cyclohexane) in the presence of a polymerization initiator (C) comprising 0.01W5pts.wt. water-soluble polymerization initiator (a) [e.g., (NH<sub>4</sub>)<sub>2</sub>S<sub>2</sub>O<sub>8</sub>] and 0.0001W1.0pt.wt. oil-soluble polymerization initiator (b) (e.g., azobisisobutyronitrile) at a b/a ratio of 1/500W2(by weight) and, optionally, a dispersant (D) (e.g., ethylcellulose).